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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,463	07/07/2003	Minken Patrick Yeh	10168.4 7593	
7590 03/27/2006			EXAMINER	
Kirton & McConkie			LEVKOVICH, NATALIA A	
1800 Eagle Gate Tower- 60 East South Temple			ART UNIT	PAPER NUMBER
Salt Lake City, UT 84111			1743	

DATE MAILED: 03/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/614,463	YEH, MINKEN PATRICK				
Office Action Summary	Examiner	Art Unit				
	Natalia Levkovich	1743				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 13 Fe	1) Responsive to communication(s) filed on 13 February 2006.					
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) <u>7 and 8</u> is/are withdrawn from consideration.						
5) ☐ Claim(s) <u>1</u> is/are allowed.						
6)⊠ Claim(s) <u>1-6 and 9-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-20 are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Motice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Continued Examination

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/08/2006 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claims 1-6 and 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiban (US 5662722) in view of any of Cooper (US 2651381) or Morgan (US 3146072).

Shiban discloses an air and gas mixing apparatus with removable baffle plates.

The apparatus comprises, as illustrated in Figure 1, housing 1, chamber 2, inlet conduit 3, outlet duct 10 (including sensor unit 33) and baffles 41, 42 and 50. The baffles have pluralities of openings 46 and 58.

Shiban does not disclose baffles being angled toward the inlet and having a tapered shape. However, angled and tapered baffles are used in the art for a very long time. For example, Morgan discloses a device for eliminating or minimizing fumes. The device incorporates a "cone shaped inclined baffle" 23 ['angled and tapered' – Ex.] which includes a plurality of apertures 24. Cooper discloses a muffler with conical perforated baffles angled relatively to inlet / outlet (Figure 1). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have employed tapered baffles angled in respect to the inlet or outlet in the modified apparatus of Shiban, in order to provide better mixing of fluids through redirecting / reversing and bifurcating the streams. Pointing to claims 4, 12 and 19, the shape of the baffles can be considered 'substantially triangle' or 'substantially rectangle', depending on extent to which the baffles are tapered.

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Referring to claims 5, 13 and 18, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have employed baffles continuously connected to the enclosure with as many sides as possible, depending on their specific shape, in order to provide sufficient rigidity to the apparatus.

5. Claims 1-6 and 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weigold et al. (US 5397552) in view of Natsis et al. (US 3617382).

See the appropriate paragraphs of the 03/08/2005 Office Action.

Response to Arguments

6. Applicant's arguments dated 02/08/2005 have been fully considered but they are not persuasive and moot in view of the new grounds of rejection.

Applicant argues that the references of the previously made rejections do not teach tapered baffles. Examiner disagrees. As was discussed in the prior Office Actions, Natsis does teach a plurality of conical (tapered) baffles 388 shown in Figure 24.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Clarke et al.(US 5840198) – discloses an apparatus with tapered and angled

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buffles having holes.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalia Levkovich whose telephone number is

571-272-2462. The examiner can normally be reached on Mon-Fri, 8 a.m.-4p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Supervisory Patent Examiner
Technology Center 1700